

A.2.26 AOC 8

Description

AOC 8 is located at the approximate site of the former Treating Plant (associated with the old Crude Unit No. 1) and former ASTs 211 and 212, located in the Main Yard. This area was included as an AOC based on oily and tarry material encountered in borings B-27 and B-28 during the expansion of the groundwater monitoring system by DRAI in 1991. No information is available regarding the waste management history associated with this unit. As shown on Figure A.2.22, AOC is a confirmed LNAPL area (AOC 8-NF6).

As shown on Figure A.2.22 and summarized on Table A.2.22, data from two soil borings, four soil samples (three fill samples and one native soil sample), one temporary piezometer, one groundwater sample from a monitoring well, and data from one hydropunch sample were collected during the 1st-Phase Soil and Groundwater Investigations and Full RFI. In addition, there have been extensive investigations of the AOC 8 LNAPL Area. These additional investigative activities and delineation of AOC 8 are discussed in detail in Section 7 of the Full RFI Report.

Soils

Evidence of petroleum impacts (e.g., odors, staining, etc.) is noted frequently in the fill material. The thickness of the fill layer ranges from at least eight to 13 feet thick. Results of TPH fingerprint analysis for the soil sample from SB0165 indicates that TPH in the distillation range of evaporated motor gasoline and biodegraded crude or gas oil was present. However, none of the three RFI soil samples from S0811/MW-128 contained exceedances of the soil delineation criteria, except for naturally-occurring iron.

The SPLP sample from S0812C1 contained 6.74 mg/L of naturally-occurring iron, which exceeds the applicable criteria for SPLP iron (3.3 mg/L)¹. No other metals were detected above the applicable SPLP criteria in this sample. Therefore, the soils are not a source of potential metal impacts to groundwater.

Groundwater

Although MW-128 is located within the footprint of the AOC 8 LNAPL Area, LNAPL has not been measured in this monitoring well. The January 2003 groundwater sample collected from this well did not contain any exceedances of COCs. A more detailed discussion of the potential groundwater impacts in the area of AOC 8 can be found in both Section 7 and Section 8 of the RFI report.

¹Based on the groundwater criterion for iron (300 µg/L), DAF = 11.

Summary

AOC 8 is a confirmed LNAPL area that has been delineated. See Section 7 of the Full RFI Report for a more detailed discussion of this AOC.